运行代码：

import pandas as pd  
  
  
def drop(src, dst, name):  
 detail = pd.read\_csv(src, encoding=**'gbk'**) if **'.csv'** in src else pd.read\_excel(src)  
 *# detail.dropna(axis=1, how='all', inplace=True)* s = detail.isna().all() | (detail == detail.iloc[0]).all()  
 detail.drop(s[s].index, axis=1, inplace=True)  
 print(name)  
 print(**'去除的列的数目为：'**, s[s].size)  
 print(**'去除后数据的形状为：'**, detail.shape)  
 print(**'去除后数据的列：'**, detail.columns)  
 detail.to\_csv(dst, index=False, encoding=**'gbk'**) if **'.csv'** in dst else detail.to\_excel(dst, index=False)  
  
  
drop(**'./data/meal\_order\_detail1\_sql.xlsx'**, **'./data/meal\_order\_detail1\_d.xlsx'**, **'订单详情meal\_order\_detail'**)  
drop(**'./data/meal\_order\_info.csv'**, **'./data/meal\_order\_info\_d.csv'**, **'订单表meal\_order\_info:'**)  
drop(**'./data/users.xlsx'**, **'./data/users\_d.xlsx'**, **'用户信息表users:'**)  
src = **'./data/meal\_order\_detail1\_sql.xlsx'**detail = pd.read\_excel(src)  
detail.place\_order\_time = pd.to\_datetime(detail.place\_order\_time, format=**"%Y-%m-%d %H:%M:%S"**)  
detail.set\_index(**'place\_order\_time'**, drop=True, inplace=True)  
  
print(**'订单详情表每日的记录数目：'**)  
print(detail.resample(**'1D'**).size())  
print(**'订单详情表每日菜品售出数目和销售金额总数为：'**)  
print(detail.resample(**'1D'**).sum()[[**'counts'**, **'amounts'**]])  
print(**'订单详情表每日菜品均价为：'**)  
print(detail.resample(**'1D'**).mean()[[**'amounts'**]])  
print(**'订单详情表每日菜品售价中位数为：'**)  
print(detail.resample(**'1D'**).median()[[**'amounts'**]])

运行结果：

C:\Users\congcong\AppData\Local\Programs\Python\Python37\python.exe D:/我的坚果云/学校/北理珠/20-21-2/数据处理技术/pandas统计分析基础-实训任务01/第5次作业.py

订单详情meal\_order\_detail

去除的列的数目为： 10

去除后数据的形状为： (2779, 9)

去除后数据的列： Index(['detail\_id', 'order\_id', 'dishes\_id', 'dishes\_name', 'counts',

'amounts', 'place\_order\_time', 'picture\_file', 'emp\_id'],

dtype='object')

订单表meal\_order\_info:

去除的列的数目为： 7

去除后数据的形状为： (945, 14)

去除后数据的列： Index(['info\_id', 'emp\_id', 'number\_consumers', 'dining\_table\_id',

'dining\_table\_name', 'expenditure', 'dishes\_count', 'accounts\_payable',

'use\_start\_time', 'lock\_time', 'org\_id', 'order\_status', 'phone',

'name'],

dtype='object')

用户信息表users:

去除的列的数目为： 12

去除后数据的形状为： (734, 25)

去除后数据的列： Index(['USER\_ID', 'MYID', 'ACCOUNT', 'NAME', 'ORGANIZE\_ID', 'ORGANIZE\_NAME',

'PASSWORD', 'EMAIL', 'FIRST\_VISIT', 'LAST\_VISITS', 'DESCRIPTION',

'CREATED', 'LASTMOD', 'CREATER', 'MODIFYER', 'TEL', 'stuNo', 'qq',

'weixin', 'meal\_arithmetic\_id', 'arithmetic\_name', 'sex', 'poo',

'address', 'age'],

dtype='object')

订单详情表每日的记录数目：

place\_order\_time

2016-08-01 217

2016-08-02 138

2016-08-03 157

2016-08-04 144

2016-08-05 193

2016-08-06 706

2016-08-07 696

2016-08-08 160

2016-08-09 146

2016-08-10 222

Freq: D, dtype: int64

订单详情表每日菜品售出数目和销售金额总数为：

counts amounts

place\_order\_time

2016-08-01 233 9366

2016-08-02 151 6125

2016-08-03 192 6890

2016-08-04 169 7549

2016-08-05 224 8671

2016-08-06 793 32167

2016-08-07 761 31306

2016-08-08 171 6532

2016-08-09 167 7155

2016-08-10 227 10231

订单详情表每日菜品均价为：

amounts

place\_order\_time

2016-08-01 43.161290

2016-08-02 44.384058

2016-08-03 43.885350

2016-08-04 52.423611

2016-08-05 44.927461

2016-08-06 45.562323

2016-08-07 44.979885

2016-08-08 40.825000

2016-08-09 49.006849

2016-08-10 46.085586

订单详情表每日菜品售价中位数为：

amounts

place\_order\_time

2016-08-01 33.0

2016-08-02 35.0

2016-08-03 38.0

2016-08-04 39.0

2016-08-05 37.0

2016-08-06 35.0

2016-08-07 35.0

2016-08-08 34.0

2016-08-09 38.0

2016-08-10 35.0

进程已结束，退出代码为 0